

A propylene/1-butene random copolymer composition comprising 50 to 97% by weight of a propylene/1-butene random copolymer (A) and 3 to 50% by weight of a low-density polyethylene (B) obtainable by high pressure processes,

said propylene/1-butene random copolymer (A):

- comprising 50 to 95 mol% of structural units derived from propylene and 5 to 50 mol% of structural units derived from 1-butene;
- exhibiting a melt flow tate (measured at 230°C under a load of 2.16 kg in accordance with ASTM D 1238) of 0.1 to 40 q/10 min;
- molecular weight distribution (Mw/Mn), (3) having a measured by gel permeation chromatography (GPC), of up to 3; and
- having a B-value, being a parameter indicating a randomness of copolymer monomer/chain distribution, of 1.0 to 1.5, and

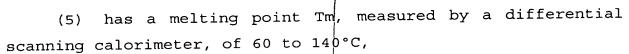
said low-density polyethylene (B):

- exhibiting a melt fldw rate (measured at 190°C under a load of 2.16 kg in accordance with ASTM D 1238) of 1 to 30 g/10 min; and
  - having a density of hot greater than 0.940  $\rm g/cm^3$ .
- The propylene/1-butene/random copolymer composition 2. as claimed in claim 1, wherein

the propylene/1-butene random copolymer (A):

has a B-value, being ) a parameter indicating a randomness of copolymer monomer chain distribution, of 1.0 to 1.3;

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said melting point, Tm, and a content of 1-butene structural units, M (mol%), satisfying the relationship:

 $-2.6 \text{ M} + 130 \leq \text{Tm} \leq -2.3 \text{ M} \neq 155$ ; and

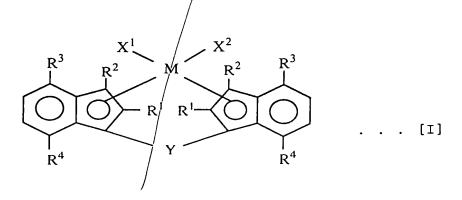
(6) has a crystallinity measured by X-ray diffractometry, C(%), said crystallinity and the content of 1-butene structural units, M (mol%), satisfying the relationship:

C ≥ -1.5 M + 75, and Said low-density polyethylene (B):

- (3) exhibits a melt flow rate (measured at 190°C under a load of 2.16 kg in accordance with ASTM D 1238) of 1 to 25 g/10 min; and
  - (4) has a density of 0.915 to 0.935 g/cm<sup>3</sup>.
- 3. The propylene/1-butene random copolymer composition as claimed in claim 1, wherein the propylene/1-butene random copolymer (A) is obtained by copolymerizing propylene and 1-butene in the presence of an olefin polymerization catalyst,

said olefin polymerization catalyst comprising:

(a) a transition metal compound represented by the general formula:



wherein:

M represents a transition metal  $\oint f$  Group IVa, Va or VIA of the periodic table;

each of R<sup>1</sup> and R<sup>2</sup> independently represents a hydrogen atom, a halogen atom, a hydrocarbon group having 1 to 20 carbon atoms, a halogenated hydrocarbon group having 1 to 20 carbon atoms, a silicon-containing group, an oxygen-containing group, a sulfur-containing group, a nitrogen-containing group or a phosphorus-containing group;

each of R<sup>3</sup> independently represents a secondary or tertiary alkyl having 3 to 20 darbon atoms or an aromatic group having 6 to 20 carbon atoms;

each of R4 independently represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms;

each of  $X^1$  and  $X^2$  independently represents a hydrogen atom, a halogen atom, a hydrocarbon group having 1 to 20 carbon atoms, a halogenated hydrocarbon group having 1 to 20 carbon atoms, an oxygen-containing group or a sulfurcontaining group;

y represents a divalent hydrocarbon group having 1 to 20 carbon atoms, a divalent halogenated hydrocarbon group having 1 to 20 carbon atoms, a divalent silicon-containing group, a divalent germanium-containing group, a divalent tin-containing group, -O-, -CO-, -S-, -SO-, -SO<sub>2</sub>-, -NR $^5$ -, -P(R $^5$ )-, -P(O)(R $^5$ )-, -BR $^5$ - or -AlR $^5$ - (provided that R $^5$  represents a hydrogen atom, a halogen atom, a hydrocarbon group having 1 to 20 carbon atoms or a halogenated hydrocarbon group having 1 to 20 carbon atoms), and

(b) an organoaluminum oxy compound (b-1) and/or a compound (b-2) capable of reacting with the transition metal compound (a) to thereby form an ion pair.

5. The propylene/1-butene random copolymer composition as claimed in claim 1, wherein the low-density polyethylene (B) obtainable by high pressure processes comprises an ethylene homopolymer or a copolymer of ethylene and an  $\alpha$ -olefin having 3 to 20 carbon atoms.

The propylene/1-butene random copolymer composition as claimed in claim 5, wherein the α-olefin is at least one selected from the group consisting of propylene, 1-butene, 1-pentene, 2-methyl-1-butene, 3-methyl-1-butene, 1-hexene, 3-methyl-1-pentene, 4-methyl-1-pentene, 3,3-dimethyl-1-butene, 1-heptene, methyl-1-hexene, dimethyl-1-pentene, trimethyl-1-butene, ethyl-1-pentene, 1-octene, methyl-1-pentene, dimethyl-1-pentene, dimethyl-1-pentene, diethy-1-butene, propyl-1-pentene, methylethyl-1-pentene, dimethyl-1-pentene, dimethyl-1-pentene, dimethyl-1-hexene, methyl-1-octene, methyl-1-heptene, diethyl-1-heptene, ethyl-1-octene, methylethyl-1-heptene, diethyl-1-hexene, 1-dodecene and 1-hexadodecene.

7. The propylene/1-butene random copolymer composition as claimed in claim 1, which further comprises an antioxidant, an ultraviolet absorber, a lubricant, a nucleating agent, an antistatic agent, a flame retarder, a pigment, a dye or a filler.

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The propylene/1-butene random copolymer composition as claimed in claim 7, wherein the filler is an organic filler or an inorganic filler.

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